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### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

MAY 1 8 2007 In re spoplication of:

CERTIFICATES OF CORRECTION BRANCH

Patent No.:

7,107,251

Jamal BAINA et al.

Issue Date:

Sep. 12, 2006

For:

METHOD OF EVALUATING THE QUALITY OF AUDIO-VISUAL SEQUENCES

### REQUEST FOR CORRECTED CERTIFICATE OF CORRECTION

Commissioner of Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

A certificate of correction was issued for this patent on April 10, 2007. Applicant hereby requests issuance of a corrected Certificate of Correction pursuant to 37 CFR 1.322 as shown on the attached form PTO-1050. The correction requested herein is the result of a Patent Office printing mistake.

The second item on the Certificate of Correction dated April 10, 2007 is incorrect.

"training sets EA" should read "training sets EAj", not "ESj" as printed. A copy of the original Request for Certificate of Correction as filed is attached to support this correction.

Accordingly, issuance of the corrected certificate is respectfully requested.

Since the error was a result of a Patent Office oversight, no fee is required, however, please charge any fee deficiency or credit any overpayment to Deposit Account No. 50-1088.

Respectfully requested, CLARK & BRODY,

Christopher W. Brody

Registration No. 33,613

1090 Vermont Avenue, NW, Suite 250

Washington, DC 20005 Telephone: 202-835-1754 Facsimile: 202-835-1755 Docket No.: 11016-0007

Date: May 18, 2007

Certificate

MAY 2 3 2007

or Correction

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

(Also Form PTO-1050)

# UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Clark & Brody 1090 Vermont Avenue, NW, Suite 250 Washington, DC 20005

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Petent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

## UNITED STATES PATENT AND TRADEMARK OFFICE **CERTIFICATE OF CORRECTION**

PATENT NO. : 7,107,251 B1 APPLICATION NO. : 10/018661

Page 1 of 1

DATED

: September 12, 2006

INVENTOR(S)

: Jamal Baina and Pierre Bretillon

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Title page Item (87)

"PCT Pub. Date: Jan. 14, 2001" should read --PCT Pub. Date: Jan. 1, 2001--

Title page Item (57) Abstract:

paragraph (b), "training sets EA" should read --training sets ESj--

Signed and Sealed this

Tenth Day of April, 2007

JON W. DUDAS Director of the United States Patent and Trademark Office

### (12) DEMANDE INTERNATIONALE PUBLIÉE EN VERTU DU TRAITÉ DE COOPÉRATION EN MATIÈRE DE BREVETS (PCT)

## (19) Organisation Mondiale de la Propriété Intellectuelle

Bureau international



## 

### (43) Date de la publication internationale 4 janvier 2001 (04.01.2001)

### **PCT**

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- (81) États désignés (national): CA, JP, US.
- (84) États désignés (régional): brevet européen (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).

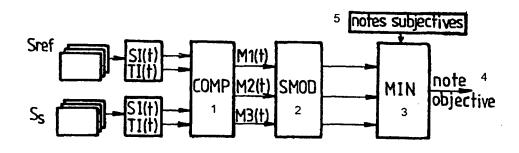
#### Publiée:

Avec rapport de recherche internationale.

En ce qui concerne les codes à deux lettres et autres abréviations, se référer aux "Notes explicatives relatives aux codes et abréviations" figurant au début de chaque numéro ordinaire de la Gazette du PCT.

(54) Title: METHOD FOR EVALUATING THE QUALITY OF AUDIO-VISUAL SEQUENCES

(54) Titre: PROCEDE D'EVALUATION DE LA QUALITE DE SEQUENCES AUDIOVISUELLES



- 1...COMPARATOR
- 2...SUMMING MODULE

3...MINIMIZATION OF DISTORSION
4...OBJECTIVE RATING
5...SUBJECTIVE RATINGS

(57) Abstract: The invention concerns a method for evaluating the quality of audio-visual sequences by: a training comprising the attribution of a subjective rating to each of No training sequences exhibiting degradations identified by a training vector assigned to each sequence according to a first vectoring process, to constitute a database consisting of No training vectors MOi and subjective ratings NSi; classifying the training vectors into k classes of ratings based on the subjective ratings NSi, which have been attributed, to form k training sets whereto are attributed k significant ratings; establishing for said audio-visual sequence to be evaluated a vector according to said first vectoring process; attributing to the audio-visual sequence the significant training rating NSRj, corresponding to the closest training set Eaj.



### ABSTRACT

The invention provides a method of evaluating the quality of an audiovisual sequence by:

a) training, comprising allocating a subjective score  $NS_i$  to each of  $N_0$  training sequences  $S_i$  (where  $i=1,2,\ldots,N_0$ ) presenting degradations identified by a training vector  $MO_i$  which is given to each sequence  $S_i$  in application of a first vectorizing method, in order to build up a database of  $N_0$  training vectors  $MO_i$  with subjective scores  $NS_i$ ;

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- b) classifying the  $N_0$  training vectors  $MO_i$  into  $\underline{k}$  classes of scores as a function of the subjective scores  $NS_i$  that have been allocated to them, so as to form  $\underline{k}$  training sets  $EA_j$  (where  $j=1,\ 2,\ \ldots,\ k$ ) which have  $\underline{k}$  significant training scores  $NSR_i$  allocated thereto;
- c) for each audiovisual sequence to be evaluated, generating a vector MO using said first vectorization method; and
- d) allocating to the audiovisual sequence for evaluation the significant training score NSR; that corresponds to the closest training set EA;.